SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Findeis, M. et al.

(ii) TITLE OF INVENTION: Modulators of β-Amyloid Peptide Aggregation Comprising D-Amino Acids

(iii) NUMBER OF SEQUENCES: 33

(iv) CORRESPONDENCE ADDRESS:
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(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE: Herewith
(C) CLASSIFICATION:

(ix) PRIOR APPLICATION DATA:
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(B) FILING DATE: 27-OCT-1995

(ix) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: USSN 08/616,081
(B) FILING DATE: 14-MAR-1996

(ix) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: USSN 08/703,675
(B) FILING DATE: 27-AUG-1996

(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE: 21-JUL-1997

(x) ATTORNEY/AGENT INFORMATION:
(A) NAME: KARA, Catherine J.
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(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 43 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala Thr
35 40

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 103 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(v) FRAGMENT TYPE: internal

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Glu Val Lys Met Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val
1 5 10 15

His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
20 25 30

Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val
35 40 45

Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile
50 55 60

His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg
65 70 75 80

His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys
85 90 95

Phe Phe Glu Gln Met Gln Asn
100

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Leu Val Phe Phe Ala
5

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Ala Phe Phe Val Leu
5

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Ala Phe Phe Leu Leu
5

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Leu Phe Phe Val Leu
5

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Phe Phe Phe Val Leu
5

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Leu Val Phe Phe

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids

(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Leu Val Phe Phe

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 3 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-3
(D) OTHER INFORMATION: /note= D amino acid

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 3
(D) OTHER INFORMATION: /note= phenethylamide C-terminal modification

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Leu Val Phe

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Leu Val Tyr Phe

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 3
(D) OTHER INFORMATION: /note= Xaa=iodotyrosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Leu Val Xaa Phe

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Leu Val Phe Tyr

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 4
(D) OTHER INFORMATION: /note= Xaa=iodotyrosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Leu Val Phe Xaa

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Leu Val Phe Ala

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Leu Val Phe Phe Ala

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Ala Val Phe Phe Leu
5

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Leu Val Tyr Phe Ala
5

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 3
(D) OTHER INFORMATION: /note= Xaa=iodotyrosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Leu Val Xaa Phe Ala
5

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Leu Val Phe Tyr Ala
5

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 4
(D) OTHER INFORMATION: /note= Xaa=iodotyrosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Leu Val Phe Xaa Ala
5

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Phe Phe Val Leu

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-4
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Ala Phe Phe Val

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Phe Phe Phe Leu Val

(2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Phe Phe Phe Phe Leu
5

(2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Ala Phe Phe Phe Leu
5

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

Leu Val Phe Phe Phe
5

(2) INFORMATION FOR SEQ ID NO:28:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Leu Val Phe Phe Val
5

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Leu Val Tyr Tyr Ala
5

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1-5
(D) OTHER INFORMATION: /note= D amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

Leu Phe Phe Phe Leu
5

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 5
(D) OTHER INFORMATION: /note= Adp modification

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Asp Asp Ile Ile Leu
5

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Leu Val Tyr Phe Ala
5

(2) INFORMATION FOR SEQ ID NO:33:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 1
(D) OTHER INFORMATION: /note= cholyl modification

(ix) FEATURE:
(A) NAME/KEY: Modified site
(B) LOCATION: 5
(D) OTHER INFORMATION: /note= amide modification

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

Leu Val Phe Phe Ala
5 5